

## SECTION A

Answer **all** parts of the question.

### Area of Impact: Business and Employment

1. Biometric authentication of customers is now being used by many retail stores. Customers register in a store, bringing proof of identity, and then have a finger scanned. When they go shopping at a later date, customers pay for their goods by touching the scanner with a finger and then selecting their preferred method of payment, for example a credit card, the details of which were given at registration.
  - (a) Identify **two** other physical characteristics, other than fingerprints, that are currently used in biometric systems. *[2 marks]*
  - (b) With reference to the information technology (IT) that underpins biometrics, describe the process of biometric authentication. *[4 marks]*
  - (c) Explain why biometric options for payments at retail stores could be considered better than credit card signatures when authenticating the user. *[4 marks]*
  - (d) Discuss the concerns that people might have with the widespread use of biometric technology by several retail stores and different institutions. *[10 marks]*